

| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|---|------|-----|--------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------|
| 1 | BRS | L1 | 911 | (monitor\$5 or detect\$5 or inspect\$5 or measur\$5 or calculat\$5 or determin\$5) near7 (dust near4 surface) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/16 08:46 |
| 2 | BRS | L8 | 597 | 1 and @ad<=19970418 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/16 08:49 |
| 3 | BRS | L15 | 922004 | (light or laser or optic\$3) near3 (beam or source or light) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/16 08:53 |
| 4 | BRS | L22 | 232 | 8 and 15 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/16 10:04 |
| 5 | BRS | L29 | 4 | 22 and appliance | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/16 10:04 |

| | Comments | Error Definition | Errors |
|---|----------|------------------|--------|
| 1 | | | 0 |
| 2 | | | 0 |
| 3 | | | 0 |
| 4 | | | 0 |
| 5 | | | 0 |

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TITLE: DUST DETECTOR ON OPTICAL APPARATUS

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FUJI PHOTO FILM CO LTD

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ABSTRACT:

PROBLEM TO BE SOLVED: To detect dust deposited to a surface of an optical part such as a cover glass, a lens and a mirror in an optical apparatus of a scanning optical system or the like.

SOLUTION: Scattered light 2b caused by laser scanning light 2a transmitting through a cover glass 6 which is scattered by dust 10 deposited to a surface of the cover glass 6 is led to a sensor 14 by an optical rod 12 to be converted into an electric signal, and the electric signal is compared with a reference value by a detecting means 16 to determine whether dust exists or to evaluate a dust quantity, thereby detecting the dust 10 deposited to the surface of the cover glass 6.

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